

M 5.5, 69 km E of Hualien City, Taiwan

Origin Time: 2022-02-11 16:43:10 UTC (Sat 00:43:10 local)

Location: 24.0044° N 122.2868° E Depth: 10.0 km

Created: 2 hours, 5 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

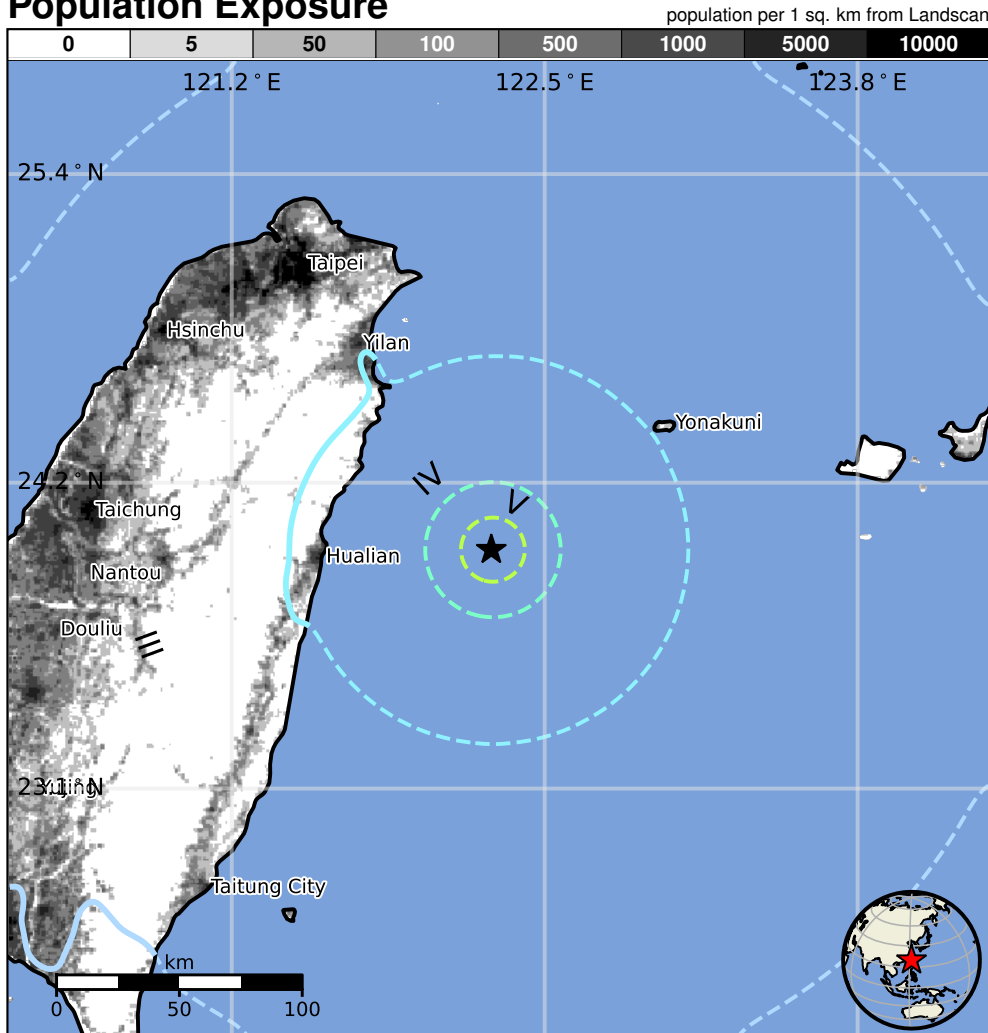


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	18,748k	574k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1994-09-16	398	6.7	V(2,387k)	5
2000-05-17	124	5.4	VI(3k)	3
1999-09-20	137	7.6	IX(1,778k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Hualien City	350k
IV	Yilan	94k
III	Yonakuni	2k
III	Taipei	7,872k
III	Puli	86k
III	Banqiao	543k
III	Taichung	1,041k
III	Hsinchu	404k
III	Taoyuan City	402k
III	Keelung	398k
III	Zhongxing New Village	26k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000gk21#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000gk21